What is claimed is:

1	1.	A regulated torque limiting clutch, comprising:
2		a drive flange; an end plate in fixed spaced relation to said drive flange;
3		interleaved friction and separator disks interposed between said drive
4	flange	e and said end plate;
5		a pressure plate;
6		a spring assembly urging said pressure plate against said interleaved
7	frictio	on and separator disks and urging said friction and separator disks into
8	force	ful engagement with each other, establishing a characteristic torque for the
9	torqu	e limiting clutch;
10		a torque regulating plate secured to said pressure plate, said torque
11	regula	ating plate and said end plate defining a cavity therebetween; and
12		a liquid within said cavity, rotation of said end plate imparting centrifugal
13	force	to said liquid and forcing said liquid radially and axially outwardly in said
14	cavity	, said liquid axially urging said torque regulating plate and said pressure
15	plate,	changing said characteristic torque.

- 2. The regulated torque limiting clutch according to claim 1, wherein said cavity has an axially outer wall and an axially inner wall, one of said outer and inner walls comprising a portion of said end plate, and the other of said outer and inner walls comprising a portion of said torque regulating plate.
- The regulated torque limiting clutch according to claim 2, wherein said axially outer wall comprises a portion of said torque regulating plate, said centrifugal force causing said liquid to urge said pressure plate away from said interleaved friction and separator disks, reducing said characteristic torque.

- 1 4. The regulated torque limiting clutch according to claim 2, wherein said
- 2 axially inner wall comprises a portion of said torque regulating plate, said
- 3 centrifugal force causing said liquid to urge said pressure plate toward said
- 4 interleaved friction and separator disks, increasing said characteristic torque.
- 1 5. The regulated torque limiting clutch according to claim 1, further
- comprising a bladder within said cavity, said bladder retaining said liquid.

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- 4 6. The regulated torque limiting clutch according to claim 5, wherein said
- 5 liquid has a specific gravity greater than that of water.
- 7. The regulated torque limiting clutch according to claim 5, further
- 2 comprising a drive flange for interconnection with an input power source, and an
- 3 output hub for interconnection with a driven unit.
- 1 8. The regulated torque limiting clutch according to claim 7, further
- 2 comprising a friction disk fixedly secured to said output hub.
- 1 9. The regulated torque limiting clutch according to claim 8, further
- 2 comprising a bearing and a seal interposed between said output hub and said
- 3 torque regulating plate.
- 1 10. The regulated torque limiting clutch according to claim 7, wherein said
- 2 spring assembly comprises a cup having a spring urging against one end thereof,
- and a flange at an opposite end thereof engaging said pressure plate.
- 1 11. The regulated torque limiting clutch according to claim 10, further
- 2 comprising torque pins interconnecting said drive flange and said end plate, said
- 3 torque pins being received by said separator disks.

- 1 12. The regulated torque limiting clutch according to claim 11, wherein said
- 2 bladder comprises a plurality of circumferentially spaced baffles extending
- 3 therewithin.
- 1 13. A regulated torque limiting clutch, comprising:
- 2 a drive flange;
- 3 a pressure plate;
- 4 interleaved friction and separator disks interposed between said drive
- 5 flange and pressure plate;
- 6 a spring assembly having a spring force urging said pressure plate against
- 7 said interleaved friction and separator disks and into forceful engagement with
- 8 each other;
- a torque regulating plate secured to said pressure plate and axially
- 10 movable therewith; and
- a centrifugally actuated mechanism in communication with said torque
- regulating plate for modifying said spring force as a function of rotational speed
- of the torque limiting clutch.
- 1 14. The regulated torque limiting clutch according to claim 13, wherein said
- 2 centrifugally actuated mechanism is taken from the group of liquid, powder,
- 3 particulate matter, and mechanical assemblies of levers, weights, and linkages.
- 1 15. The regulated limiting clutch according to claim 13, wherein said
- 2 centrifugally actuated mechanism comprises a liquid within a cavity.
- 1 16. The regulated torque limiting clutch according to claim 15, wherein said
- 2 cavity has a pair of axially separated walls, a first stationary wall and a second
- 3 axially movable wall.

- 1 17. The regulated torque limiting clutch according to claim 16, wherein said
- 2 liquid is maintained within a bladder within said cavity.
- 1 18. The regulated torque limiting clutch according to claim 17, further
- 2 comprising an end plate comprising said first stationary wall, and wherein said
- 3 second axially moveable wall is established by said torque regulating plate.
- 1 19. The regulated torque limiting clutch according to claim 18, wherein said
- 2 stationary wall is proximate said pressure plate and said movable wall is distal
- 3 said pressure plate.
- 1 20. The regulated torque limiting clutch according to claim 18, wherein said
- 2 movable wall is proximate said pressure plate and said stationary wall is distal
- 3 said pressure plate.